

FILEID**OFFSET

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00 00 FF FF FF SS SS EEE EEE TT TT
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MM MM AAAAAA RRRRRRRR
MM MM AAAAAA RRRRRRRR
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Version: 'V04-000'

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**
** MACRO TO GENERATE A OFFSET LIST FOR A DATA STRUCTURE

** IT IS USEFUL FOR INPUT ARGUMENT LISTS POSITIVELY INDEXED FROM AP, AND
** WORK AREAS ALLOCATED IN CALL STACK AND NEGATIVELY INDEXED FROM FP.

CALL: \$OFFSET INITIAL,DIRECTION,<<LAB1,[SIZE]>,...,<LABN,[SIZE]>>

WHERE: INITIAL IS A REQUIRED VALUE FOR THE INTIAL INDEX WHEN
ORIGINATING A DATA STRUCTURE DEFINITION. IT IS NORMALLY
(+) 4 FOR ARGUMENT LISTS AND 0 FOR WORK AREAS.

DIRECTION IS A KEYWORD THAT MUST BE:

POSITIVE - FOR STRUCTURES GROWING UP IN MEMORY
NEGATIVE - FOR STRUCTURES GROWING DOWN IN MEMORY
OR BLANK, IN WHICH CASE "POSITIVE" IS ASSUMED.

THE LABEL, SIZE LIST IS THE SYMBOLIC NAME FOR THE LOCATION
AND THE OPTIONAL SIZE OF THE ELEMENT. IF BLANK, SIZE IS
ASSUMED TO BE 4 (ONE LONGWORD).

TO PERMIT THE DEFINITION OF AN INDEFINITLY LARGE NUMBER OF LABELS.
THE MACRO MAY BE CONTINUED. IN THIS CASE THE "INITIAL" AND
"DIRECTION" ARGUMENTS MUST BE BLANK.

.MACRO \$OFFSET INITVALUE,DIRECTION,SYMLST
.SAVE
.PSECT \$ABSS ABS
.IF B,INITVALUE
.=SAVABS:
.IF NB,DIRECTION

.ERROR : DIRECTION MUST BE BLANK WHEN CONTINUING;
.MEXIT
.ENDC
.IFF
DIR...=1
.=INITVALUE
.IF NB,DIRECTION
.IF IDN <DIRECTION>,<POSITIVE>
.IFF
.IF IDN <DIRECTION>,<NEGATIVE>
DIR...=-1
.IFF
.ERROR : "DIRECTION" MUST BE "POSITIVE", "NEGATIVE", OR BLANK;
.ENDC
.ENDC
.ENDC
.ENDC
.IRP SYM,<SYMLST>
\$OFFST1 SYM
.ENDR
SAVABS...=.
.RESTORE
.ENDM \$OFFSET
.MACRO SOFFST1 SYM,SIZ=4
.IF LT,SIZ
.ERROR ;***** SIZ PARAMETER NEGATIVE *****;
.ENDC
.IF LT,DIR...
.BLKB -SIZ
.ENDC
.IF NB,SYM
.LIST MEB
SYM:
.NLIST MEB
.ENDC
.IF GT,DIR...
.BLKB SIZ
.ENDC
.ENDM SOFFST1

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